
FRANCE CARON, Université de Montréal

Developing modelling tasks and online resources with undergraduate students as full partners

Just before the pandemic, a colleague from École de santé publique and I had proposed a project of modelling and simulation workshops for students and teachers. The idea was to provide a different view of calculus and mathematics in general, as a way of describing, exploring with the aid of technology, and understanding aspects of a complex and changing world: public health, environment, etc. As the project became a reality in April, we adjusted to the circumstances by envisioning webinars instead of in-person workshops, and by putting a greater emphasis on the curation and development of online resources, open simulators and ideas for investigation projects. In doing that, we have remained faithful to one of our guiding principles: have undergraduate math students fully participate in the design and validation of the activities and resources. We will share some of the ideas, creations and reflections that have emerged so far through this mutually enriching partnership.